

# INTERNATIONAL SEARCH REPORT

International application No.  
PCT/AU2004/001059

| <b>A. CLASSIFICATION OF SUBJECT MATTER</b><br>Int. Cl. <sup>7</sup> : A61K 35/20, 31/198; A61P 31/04<br>According to International Patent Classification (IPC) or to both national classification and IPC  |  |   |
|--|--|---|
| <b>B. FIELDS SEARCHED</b><br>Minimum documentation searched (classification system followed by classification symbols)<br>IPC7<br>Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched<br>SEE DATABASES BELOW<br>Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)<br>DWPI, MEDLINE: Keywords used - colostrum, lactoferrin, hyperimmune milk, foremilk, mucolytic, expectorant, acetylcysteine, bacteria, helicobacter, H.pylori, bacteria, ulcer, mucosa, carbocysteine, bromhexine, infection, colonisation, inflammation |  |   |
| <b>C. DOCUMENTS CONSIDERED TO BE RELEVANT</b>  |  |   |
| Category*  | Citation of document, with indication, where appropriate, of the relevant passages   | Relevant to claim No.   |
| X  | EP 1055720 B1 (JOHNSON & JOHNSON CONSUMER COMPANIES, INC.) 29 November 2000.<br>See entire document, especially page 3, lines 3-41; claims.  | 54-65   |
| X  | US 6468965 B1 (CUTLER, P.) 22 October 2002.<br>See entire document, especially claims.   | 54-65   |
| Y  | DI MARIO, F. et al. Use of lactoferrin for <i>Helicobacter pylori</i> eradication. J. Clin. Gastroenterol. 2003 (May-June), Vol. 36, No. 5, pages 396-398.<br>See entire document.   | 1-65  |
| <input checked="" type="checkbox"/> Further documents are listed in the continuation of Box C <input checked="" type="checkbox"/> See patent family annex  |  |   |
| * Special categories of cited documents:<br>"A" document defining the general state of the art which is not considered to be of particular relevance<br>"E" earlier application or patent but published on or after the international filing date<br>"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)<br>"O" document referring to an oral disclosure, use, exhibition or other means<br>"P" document published prior to the international filing date but later than the priority date claimed   | "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention<br>"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone<br>"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art<br>"&" document member of the same patent family |   |
| Date of the actual completion of the international search<br>14 September 2004   |  | Date of mailing of the international search report<br>23 SEP 2004     |
| Name and mailing address of the ISA/AU<br>AUSTRALIAN PATENT OFFICE<br>PO BOX 200, WODEN ACT 2606, AUSTRALIA<br>E-mail address: pct@ipaustalia.gov.au<br>Facsimile No. (02) 6285 3929   |  | Authorized officer<br>JULIE KNEESHAW<br>Telephone No : (02) 6283 2748 |

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| C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT |  |                       |
|---|--|-----------------------|
| Category*   | Citation of document, with indication, where appropriate, of the relevant passages   | Relevant to claim No. |
| Y   | CASSWALL, T.H. et al. Bovine anti- <i>Helicobacter pylori</i> antibodies for oral immunotherapy. Scand. J. Gastroenterol. 2002, Vol. 12, pages 1380-1385.<br>See entire document.            | 1-65                  |
| Y   | KORHONEN, H. et al. Bovine milk antibodies for health. British Journal of Nutrition. 2000, Vol. 84, Suppl. 1, pages S135-S146.<br>See entire document.                                       | 1-65                  |
| Y   | GOTOH, A. et al. Additive effect of pronase on the efficacy of eradication therapy against <i>Helicobacter pylori</i> . 2002, Vol. 7, pages 183-191.<br>See entire document.                 | 1-65                  |
| Y   | ZALA, G. et al. N-acetylcysteine improves eradication of <i>Helicobacter pylori</i> by omeprazole/amoxicillin in cigarette smokers. 1994, Vol. 124, pages 1391-1397.<br>See entire document. | 1-65                  |

# INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No.

PCT/AU2004/001059

This Annex lists the known "A" publication level patent family members relating to the patent documents cited in the above-mentioned international search report. The Australian Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

| Patent Document Cited in<br>Search Report |         | Patent Family Member |         |    |            |
|---|---------|----------------------|---------|----|------------|
| EP  | 1055720 | AU                   | 3780000 | BR | 0003780    |
|   |         | CN                   | 1284327 | JP | 2001011441 |
|   |         |                      |         | CA | 2309520    |
|   |         |                      |         | US | 2002123460 |

Due to data integration issues this family listing may not include 10 digit Australian applications filed since May 2001.

END OF ANNEX